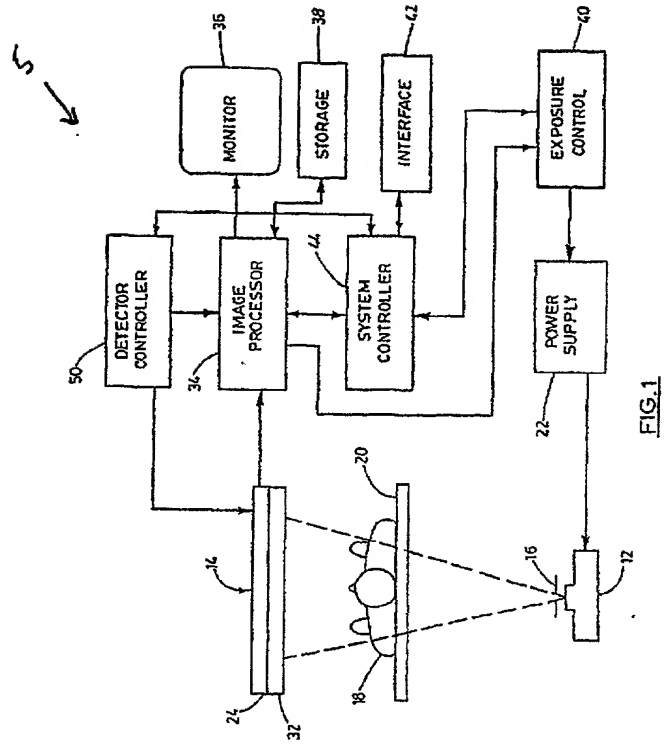

5
MONITOR
36
STORAGE
38
INTERFACE
42
EXPOSURE CONTROL
40
DETECTOR CONTROLLER
50
IMAGE PROCESSOR
34
SYSTEM CONTROLLER
44
POWER SUPPLY
22
20
14
16
12
18
24
32

FIG.1

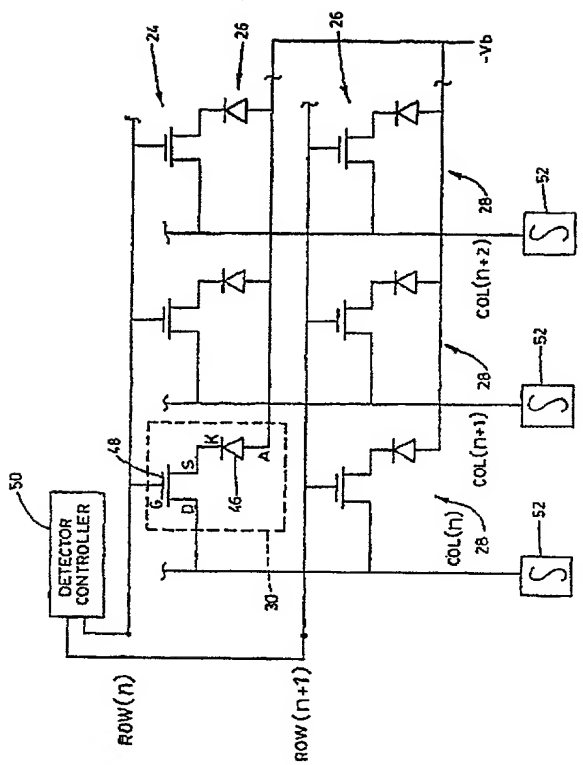

50
DETECTOR CONTROLLER
48
24
26
26
-Vb
ROW(n)
ROW(n+1)
30
46
G
S
D
K
A
28
52
COL(n)
COL(n+1)
COL(n+2)

FIG. 2

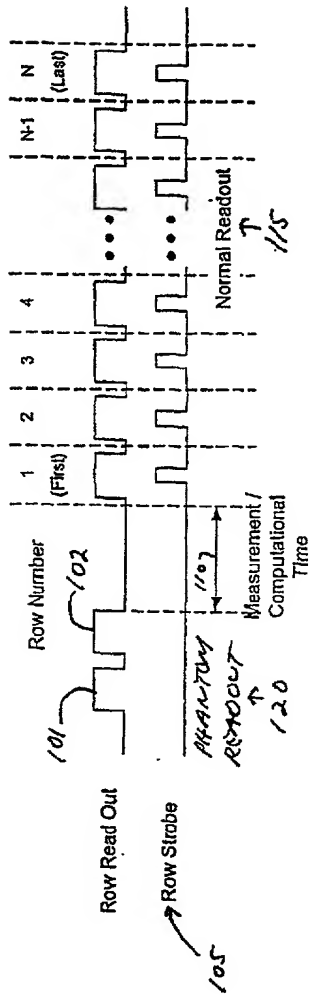

1 (First)
2
3
4
N-1
N (Last)
Row Number
102
101
Row Read Out
Row Strobe
105
Measurement / Computational Time
107
Normal Readout
115
120

FIG. 3

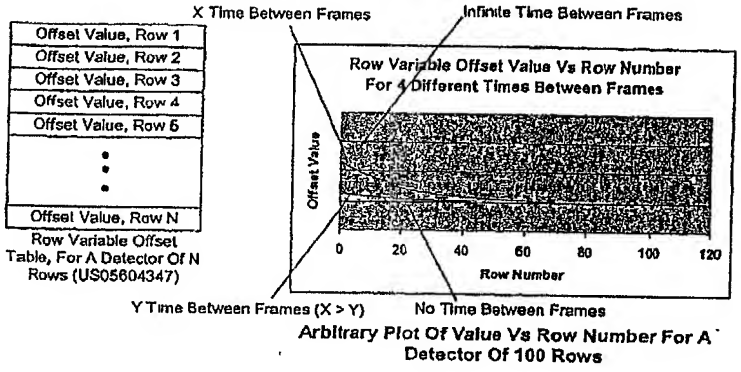
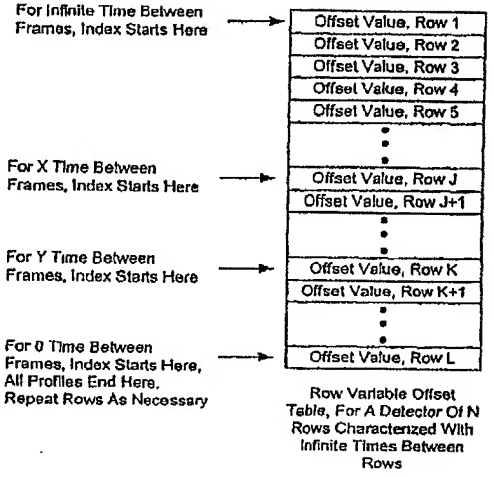

X Time Between Frames
Infinite Time Between Frames
Offset Value, Row 1
Offset Value, Row 2
Offset Value, Row 3
Offset Value, Row 4
Offset Value, Row 5
Offset Value, Row N
Row Variable Offset Table, For A Detector Of N Rows (US05604347)
Row Variable Offset Value Vs Row Number For 4 Different Times Between Frames
Offset Value
0
20
40
60
80
100
120
Row Number
Y Time Between Frames (X > Y)
No Time Between Frames
Arbitrary Plot Of Value Vs Row Number For A Detector Of 100 Rows

FIG. 4


For Infinite Time Between Frames, Index Starts Here
For X Time Between Frames, Index Starts Here
For Y Time Between Frames, Index Starts Here
For 0 Time Between Frames, Index Starts Here, All Profiles End Here, Repeat Rows As Necessary
Offset Value, Row 1
Offset Value, Row 2
Offset Value, Row 3
Offset Value, Row 4
Offset Value, Row 5
Offset Value, Row J
Offset Value, Row J+1
Offset Value, Row K
Offset Value, Row K+1
Offset Value, Row L
Row Variable Offset Table, For A Detector Of N Rows Characterized With Infinite Times Between Rows

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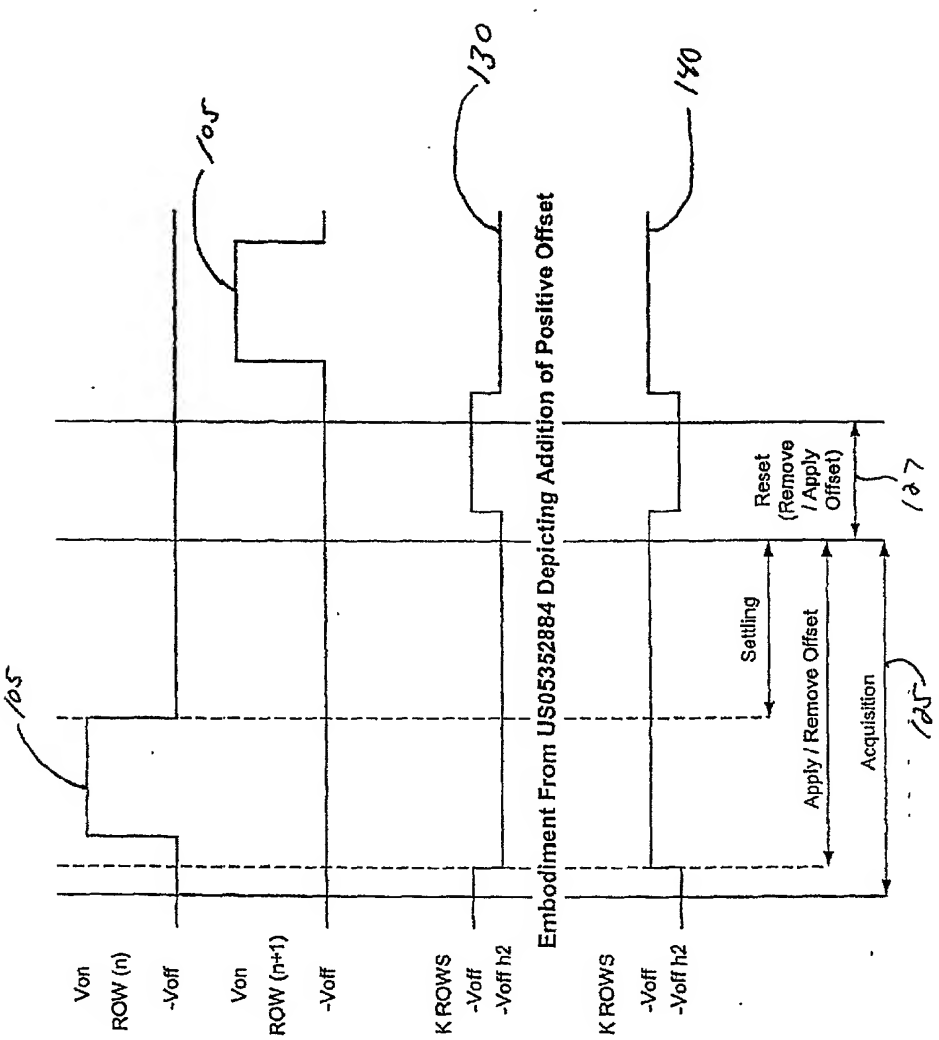

FIG. 5

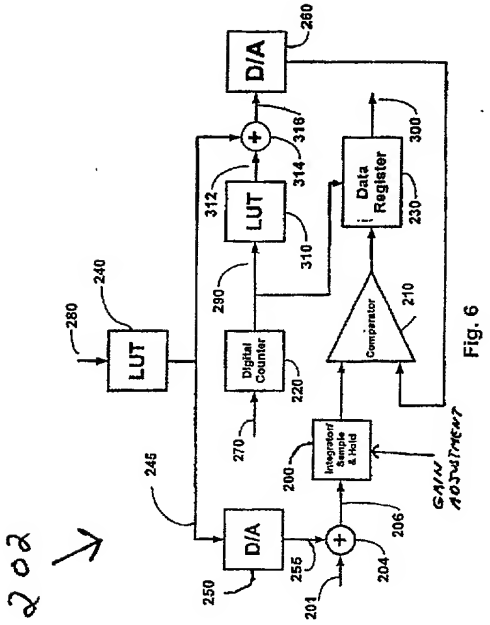
202
D/A
250
245
LUT
280
240
Digital Counter
270
220
LUT
290
310
312
314
316
D/A
280
Data Register
300
230
Comparator
210
Integrator Sample & Hold
200
GAIN ADJUSTMENT
D/A
255
201
204
206

Fig. 6

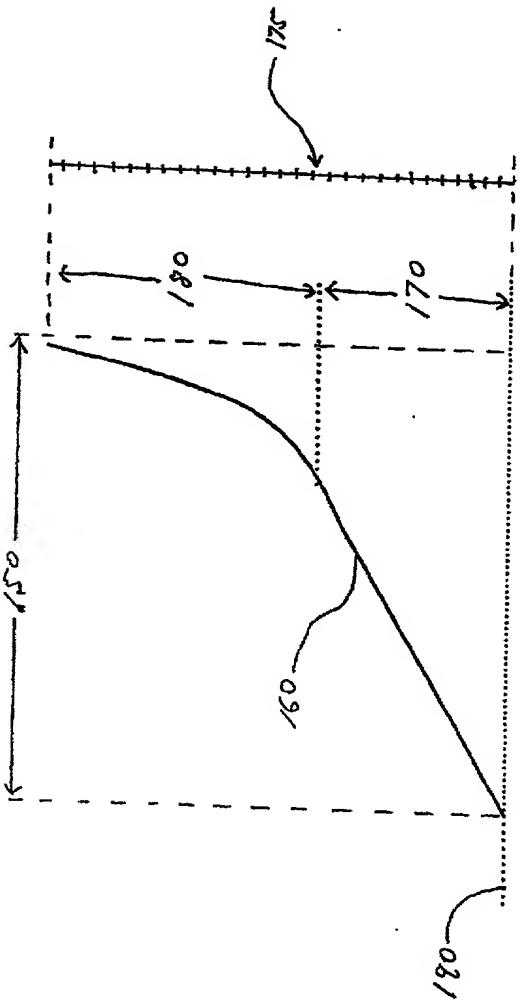

FIG. 7